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Synaptics, HUMAN  
INTERFACE  
COMPANY

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**REVOCATION AND POWER OF ATTORNEY, CHANGE OF  
CORRESPONDENCE ADDRESS, APPOINTMENT OF NEW POWER OF  
ATTORNEY AND STATEMENT UNDER 37 CFR 3.73(B)**

I hereby revoke all previous powers of attorney given in the pending U.S. patent applications listed in the attached Exhibit A and in the issued U.S. patents listed in the attached Exhibit B.

X I hereby appoint the practitioners associated with Customer Number 29906 in each of the above-identified matters.

**CHANGE OF CORRESPONDENCE ADDRESS**

Please change the correspondence address for the above-identified U.S. patent applications of Exhibit A to the address associated with Customer Number 22906.


\_\_\_\_ Applicant/Inventor

X Assignee of the entire interest. Statement under 37 CFR 3.73(b) is included.

Assignee of Interest: Synaptics Incorporated

Date: 7/21/04

By: R. J. Knittel  
Name: Russell J. Knittel  
Title: Senior Vice President

  
Synaptics

HUMAN  
INTERFACE  
COMPANY

**UTILITY PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE****STATEMENT UNDER 37 CFR 3.73(b)**

The undersigned is a representative authorized and empowered to sign on behalf of Synaptics Incorporated (hereinafter "Assignee"), and certifies that to the best of the Assignee's knowledge and belief, it is the assignee of the entire right, title and interest in and to the following listed patent applications and patents by virtue of the associated documentary evidence recorded on listed date or attached herewith as Exhibit A and Exhibit B.

Assignee of Interest: Synaptics Incorporated

Date: 7/21/04

By: 

Name: Russell J. Knittel

Title: Senior Vice President

2381 BERING DRIVE • SAN JOSE, CA 95131 • USA

PH: 408-434-0110 • FX: 408-434-9819

## Exhibit A - Pending Applications

Application Number	Application Date	Covent Number	Inventor	RecdFrame	Art Unit	Title	Publication Number	Publication Date
1 10/125,066	17-Apr-02	028.1098	Gillespie et al.	013125/0716	2173	Touch screen with user interface enhancement	2002-0191029-A1	12/19/02
2 09/877,411	07-Jun-01	028.1099	Footo et al.	012246/0322	2173	Method and apparatus for controlling a display of data on a display screen	2003-0160808-A1	08/28/03
3 10/382,799	05-Mar-03	028.1102D1C1	Shaw et al.	011637/0086	2673	Capacitive mouse	2003-0156098-A1	08/21/03
4 09/888,206	22-Jun-01	028.1104	Ausbeck	011955/0965	2674	Improved isometric joystick usability		Non-pub
5 09/415,481	08-Oct-99	028.1105	Hsu et al.	010565/0171	2775	Flexible transparent touch sensing for electronic devices		
6 09/176,839	20-Oct-98	028.1108	Schediwy et al.	010447/0711	2675	FingerStylus touch pad		
7 10/145,353	13-May-02	028.1108	Cheng	012802/0272	2833	Rotary and push type input device		Non-pub
8 10/251,563	19-Sep-02	028.1110	Bolender et al.	013324/0344	2831	Method and apparatus for providing an integrated membrane switch and capacitive sensor		Non-pub
9 10/338,786	07-Jan-03	028.1113	Trent et al.	013999/0666	2673	Closed-loop sensor in a solid-state object position detector		Non-pub
10 10/286,704	31-Oct-02	028.1116	Ausbeck et al.	013470/0339	2673	Method and apparatus for an integrated multi-pointing module		Non-pub
11 10/125,087	17-Apr-02	028.1117	Gillespie et al.	013134/0059	2674	Touch screen with user interface enhancement		Non-pub

## Exhibit B - Issued Applications

Patent Number	Issue Date	Expiration Date	Docket Number	Reel/Frame
5,085,284	10-Mar-92	10-Sep-10	028.1001	005640/0863
5,083,044	21-Jan-92	10-Mar-09	028.1002X1	005107/0635
4,935,702	19-Jun-90	09-Dec-08	028.1007	005059/0581
5,068,622	26-Nov-91	09-Dec-08	028.1007X1	005297/0317
5,059,920	22-Oct-91	28-Feb-10	028.1007X1C1	005483/0575
5,119,038	02-Jun-92	18-May-10	028.1007X1C1D1	012199/0229
5,146,106	08-Sep-92	18-May-10	028.1007X1C1D2	012199/0229
5,160,899	03-Nov-92	22-Oct-11	028.1007X1C2	012199/0229
5,109,261	28-Apr-92	28-Feb-10	028.1007X1D1	012199/0229
5,073,759	17-Dec-91	28-Feb-10	028.1007X1D2	012199/0229
5,049,758	17-Sep-91	28-Feb-10	028.1007X1D3	012199/0229
5,120,996	09-Jun-92	08-Jun-10	028.1008C1	012199/0229
4,982,342	09-Oct-90	04-May-09	028.1009	005126/0710
4,953,928	04-Sep-90	09-Jun-09	028.1010	005088/0593
5,165,054	17-Nov-92	18-Dec-10	028.1018	005749/0722
5,126,685	30-Jun-92	18-Dec-10	028.1018D1	012199/0229
5,107,149	21-Apr-92	19-Aug-11	028.1018D2	012199/0229
5,168,562	24-Nov-92	09-May-11	028.1022	005236/0182
5,243,554	07-Sep-93	09-May-11	028.1022C1	012199/0229
5,829,891	13-May-97	25-Mar-16	028.1022C1X1	012199/0229
5,541,878	30-Jul-96	26-Dec-13	028.1022C2	007208/0846
5,248,873	28-Sep-93	10-Jun-11	028.1023C1	012199/0229
5,204,549	20-Apr-93	28-Jan-12	028.1029	006171/0029
5,303,329	12-Apr-94	10-Dec-11	028.1031	006801/0802
5,336,936	04-Aug-94	06-May-12	028.1033	006227/0660
5,331,215	19-Jul-94	14-Jul-12	028.1034X1	006376/0598
5,381,515	10-Jan-95	30-Jul-12	028.1034X2	012199/0229
4,902,103	31-Jan-89	03-Jun-06	028.1043	004582/0850

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## Exhibit B - Issued Applications

Patent Number	Issue Date	Expiration Date	Docket Number	Reel/Frame
4,773,024	20-Sep-88	03-Jun-08	028.1043X1	004730/0062
5,408,194	18-Apr-85	25-Jun-13	028.1048	008696/0377
5,648,642	15-Jun-87	15-Jul-14	028.1049C1	012199/0229
5,374,787	20-Dec-94	08-Jun-12	028.1049X1	006741/0757
5,495,077	27-Feb-96	31-Aug-13	028.1049X1C1	012199/0229
6,239,388	29-Mar-01	31-Aug-13	028.1049X1X1	012199/0229
5,543,588	08-Aug-96	08-Aug-13	028.1049X2	008936/0955
5,914,465	22-Jun-99	22-Jun-16	028.1049X3	007225/0195
5,942,733	24-Aug-99	02-Sep-14	028.1049X3C1	007862/0344
5,543,590	06-Aug-96	02-Sep-14	028.1049X4	007250/0234
5,889,236	30-Mar-99	02-Sep-14	028.1049X4X1	008074/0195
5,543,591	06-Aug-96	02-Sep-14	028.1049X5	007292/0082
5,880,411	09-Mar-88	07-Oct-14	028.1049X5X1	007999/0354
6,610,936	28-Aug-03	28-Mar-16	028.1049X5X1C1	007999/0354
6,750,852	15-Jun-04	15-Aug-12	028.1049X5X1C2	007999/0354
6,028,271	22-Feb-00	12-Aug-17	028.1049X5X1D1	012199/0229
6,414,671	02-Jul-02	07-Nov-14	028.1049X5X1D2	012199/0229
6,380,931	30-Apr-02	07-Oct-14	028.1049X5X1D2C1	012199/0229
5,861,583	19-Jan-89	28-Mar-16	028.1049X5X2	008649/0752
5,488,204	30-Jan-96	02-Sep-14	028.1049X6	007277/0121
5,864,242	26-Jan-99	22-Mar-15	028.1070X3	012199/0229
6,023,422	08-Feb-00	11-Dec-15	028.1070X3D1	012199/0229
6,430,305	06-Aug-02	20-Dec-16	028.1077	008770/0178
6,380,929	30-Apr-02	26-Sep-16	028.1079	008320/0382
5,841,078	24-Nov-98	25-Oct-14	028.1080C1	012199/0229
5,854,625	29-Dec-98	06-Nov-16	028.1081	008647/0621
5,926,566	20-Jul-99	15-Nov-16	028.1082	008351/0170
6,148,104	14-Nov-00	15-Nov-18	028.1082C1	012199/0229

## Exhibit B - Issued Applications

Patent Number	Issue Date	Expiration Date	Docket Number	Reel/Frame
6,028,959	22-Feb-00	15-Nov-16	028.1082C2	012199/0229
5,812,698	22-Sep-98	14-Jul-17	028.1087C1	012199/0229
5,920,310	08-Jul-99	15-Nov-16	028.1100	008521/0189
6,587,093	01-Jun-03	03-Nov-20	028.1102	011637/0086
6,642,857	04-Nov-03	18-May-21	028.1103	011657/0378
5,943,052	24-Aug-99	12-Aug-17	028.1106	008664/0764
6,188,391	13-Feb-01	09-Jul-18	028.1107	009789/0894

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